

ITN-

Practitioner's Docket No.: 920\_087

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: ODAMURA, Kouzou; YAMADA, Satoshi; and ETO, Koji

Ser. No.: 10/584,723

Group Art Unit: 3722

Filed:

Examiner: Not assigned

Conf. No.: 6084

For: THERMAL TRANSFER SHEET, PROCESS FOR PRODUCING THE  
SAME, AND IMAGE FORMED OBJECT PRODUCED BY TRANSFER OF  
SAID THERMAL TRANSFER SHEET

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

I hereby certify that this correspondence is being deposited  
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addressed to Commissioner for Patents, P.O. Box 1450,  
Alexandria, VA 22313-1450, on November 8, 2006.

Janet M. Stevens

SUBMISSION OF ENGLISH TRANSLATION OF INTERNATIONAL  
PRELIMINARY REPORT ON PATENTABILITY

Sir:

Applicants submit herewith an English translation of the International Preliminary  
Report on Patentability dated 31 August 2006 in connection with the above-identified  
application.

November 8, 2006

Date

Respectfully submitted,

Stephen P. Burr  
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From the INTERNATIONAL BUREAU

**PCT**

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY  
(CHAPTER I OR CHAPTER II  
OF THE PATENT COOPERATION TREATY)  
(PCT Rules 44bis.3(c) and 72.2)

To:

YOSHITAKE, Kenji  
Kyowa Patent & Law Office  
Room 323, Fuji Bldg.  
2-3, Marunouchi 3-chome  
Chiyoda-ku, Tokyo 1000005  
JAPON



Date of mailing (day/month/year)

31 August 2006 (31.08.2006)

Applicant's or agent's file reference

151598-251

**IMPORTANT NOTIFICATION**

International application No.

PCT/JP2004/018783

International filing date (day/month/year)

16 December 2004 (16.12.2004)

Applicant

DAI NIPPON PRINTING CO., LTD. et al

**1. Transmittal of the translation to the applicant.**

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

**2. Transmittal of the copy of the translation to the designated or elected Offices.**

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

**3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).**

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO  
34, chemin des Colombettes  
1211 Geneva 20, Switzerland

Authorized officer

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# PATENT COOPERATION TREATY

## PCT

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 151598-251	<b>FOR FURTHER ACTION</b>		See item 4 below
International application No. PCT/JP2004/018783	International filing date ( <i>day/month/year</i> ) 16 December 2004 (16.12.2004)	Priority date ( <i>day/month/year</i> ) 24 December 2003 (24.12.2003)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant DAI NIPPON PRINTING CO., LTD.			

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 5 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- |                                     |              |   |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the report   |
| <input type="checkbox"/>            | Box No. II   | Priority  |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention  |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI   | Certain documents cited   |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application  |
| <input checked="" type="checkbox"/> | Box No. VIII | Certain observations on the international application   |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

<p style="text-align: center;">The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland</p> <p>Facsimile No. +41 22 338 82 70</p>	<p>Date of issuance of this report 22 August 2006 (22.08.2006)</p> <p>Authorized officer  <b>Masashi Honda</b></p> <p>e-mail: pt08@wipo.int</p>
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# PATENT COOPERATION TREATY

TRANSLATION

From the  
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing  
(day/month/year)

Applicant's or agent's file reference

**151598-251**

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

**PCT/JP2004/018783**

International filing date (day/month/year)

**16.12.2004**

Priority date (day/month/year)

**24.12.2003**

International Patent Classification (IPC) or both national classification and IPC

Applicant

**DAI NIPPON PRINTING CO., LTD.**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/018783

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
☐ This opinion has been established on the basis of a translation from the original language into the following language  
\_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

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WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/018783

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
1. Statement			
Novelty (N)	Claims	3-5, 7-9	YES
	Claims	1, 2, 6, 10, 11	NO
Inventive step (IS)	Claims		YES
	Claims	1-11	NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims		NO
2. Citations and explanations:			
<p>Document 1: JP 2002-79797 A (Dainippon Printing Co., Ltd.)  19 March 2002, Claim 1; paragraph 0049,  paragraph 0067; Fig. 1  &amp; EP 1168110 A  &amp; US 2002015897 A  &amp; AU 200154017 A</p> <p>Document 2: JP 2003-53898 A (Dainippon Printing Co., Ltd.)  26 February 2003, Claim 1, Claim 4, Claim 9,  paragraph 0039; Fig. 1</p> <p>Document 3: JP 8-118826 A (Dainippon Printing Co., Ltd.)  14 May 1996, Claim 1; paragraph 0037; Fig. 1</p> <p>Document 4: JP 10-116031 A (Toppan Printing Co., Ltd.)  06 May 1998, paragraph 0015; Fig. 1</p> <p>The inventions of claims 1, 2, 6 and 11 are described in document 1 (claim 1; paragraphs 0049 and 0067) cited in the ISR; therefore they do not appear to possess novelty or to involve an inventive step.</p> <p>The inventions of claims 1, 2, 6, 10 and 11 are described in document 2 (claims 1, 4 and 9; paragraph 0039; Fig. 1) cited in the ISR; therefore they do not appear to possess novelty or to involve an inventive step.</p> <p>The inventions of claims 3-5 and 7-9 do not appear to involve an inventive step based on documents 1 and 2 and document 3 (claim 1; paragraph 0037; Fig. 1) cited in the ISR and document 4 (paragraph 0015; Fig. 1) cited in the ISR. As a method for manufacturing a hologram layer of document 1 and a light diffraction structured layer of document 2, using a thermal transfer sheet of a hologram layer described in documents 3 and 4 would be easy for a person skilled in the art.</p>			

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/018783

Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

The definition of "an inter-transfer medium" in claims 2-5 and 7-10 is not clear.

The definition of "a pattern state" in claim 6 is not clear.

In claim 10, there is a description of "having a function to absorb ultraviolet rays", but it is not sufficiently supported by the specification.